

Plastic bottles transformed into solar power generation

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Researchers have developed a method to transform discarded water bottles into high-performance energy storage devices called supercapacitors.

Researchers have developed a system that can transform plastic waste and greenhouse gases into sustainable fuels and other valuable products - using just the energy from the Sun.

Korean researchers develop eco-friendly technology to turn plastic into hydrogen using sunlight. A scalable solution that tackles environmental pollution and clean energy demand.

At a lab in Singapore, a team of chemists stared down one of the modern world's most persistent enemies: polyethylene, the ultra-stable plastic that wraps our groceries, clogs our oceans, ...

Researchers successfully implemented a solar-powered system that converts harmful waste products such as plastic and carbon emissions into clean fuel.

It breaks down plastic bottles into byproducts such as ethylene glycol and terephthalic acid, while releasing clean hydrogen. Scientists have announced a recycling breakthrough that can ...

This review presents a detailed examination of solar-driven plastic photoreforming, a strategy that leverages water and sunlight to generate H₂ and other value-added compounds from ...

A team of South Korean researchers has developed a novel photocatalytic technology that transforms plastic waste into clean hydrogen fuel using sunlight and water, offering a potentially ...

Researchers from the Institute for Basic Science (IBS) in South Korea have successfully developed a system that transforms plastic bottles into hydrogen fuel using sunlight. This pioneering ...



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Plastic pollution and the urgent need for clean energy have become twin challenges of our times. Now, researchers in South Korea have unveiled a groundbreaking technology that tackles ...

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